Inventor: Margaret Shipp et al.

Title: LYMPHOMA ASSOCIATED MOLECULES AND USES THEREFOR

replacement pages

Docket No.: DFN-031US



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#### BAL human cDNA

5'UTR:

GGGCTTCGTGTTCCTGGGTGCTGACCGTGCACTCCCCGCCGCCCGAGGACTTAGAGCTCTGGAAGT AGCTCTCCAGCTTCCTTCGTACTCGGGGGCCGGACTTGTACACCCGCACGAGGAGCGGGGACGGC GGGCGCAGAAGTGGGCCACCATATCTGGAAACTACAGTCTATGCTTTGAAGCGCAAAAGGGAATA AACATTTAAAGACTCCCCGGGGACCTGGAGG

Coding: alternatively spliced sequence in bold characters

ATGGACTTTTCCATGGTGGCCGGAGCAGCAGCTTACAATGAAAAATCAGGTAGGATTACCTCGCT CTCACTCTTGTTTCAGAAAGTCTTTGCTCAGATCTTTCCTCAGTGGAGAAAGGGGAATACAG **AAGAATGTCTCCCCTACAAGTGCTCAG**AGACTGGTGCTCTTGGAGAAAACTATAGTTGGCAAAT TCCCATTAACCACAATGACTTCAAAATTTTAAAAAATAATGAGCGTCAGCTGTGTGAAGTCCTCCA GAATAAGTTTGGCTGTATCTCTACCCTGGTCTCTCCAGTTCAGGAAGGCAACAGCAAATCTCTGCA AGTGTTCAGAAAAATGCTGACTCCTAGGATAGAGTTATCAGTCTGGAAAGATGACCTCACCACAC ATGCTGTTGATGCTGTGGTGAATGCAGCCAATGAAGATCTTCTGCATGGGGGAGGCCTGGCCCTGG CCCTGGTAAAAGCTGGTGGATTTGAAATCCAAGAAGAGAGCAAACAGTTTGTTGCCAGATATGGT AAAGTGTCAGCTGGTGAGATAGCTGTCACGGGAGCAGGGAGGCTTCCCTGCAAACAGATCATCCA TGCTGTTGGGCCTCGGTGGATGGAATGGGATAAACAGGGATGTACTGGAAAGCTGCAGAGGGCCA TTGTAAGTATTCTGAATTATGTCATCTATAAAAATACTCACATTAAGACAGTAGCAATTCCAGCCT TGAGCTCTGGGATTTTCAGTTCCCTCTGAATTTGTGTACAAAGACTATTGTAGAGACTATCCGGGT CTACTGTTGCTGCCTTTAAAGCTGCTTCAGAATTCATCCTAGGGAAGAGTGAGCTGGGACAAGAAA CCACCCTTCTTTCAATGCAATGGTCGTGAACAACCTGACCCTCCAGATTGTCCAGGGCCACATTG AATGGCAGACGGCAGATGTAATTGTTAATTCTGTAAACCCACATGATATTACAGTTGGACCTGTGG CATGTACTGTGGCATTCAGAATTTCCTAAACCTCAGATATTAAAACATGCAATGAAGGAGTGTTTG GAAAAATGCATTGAGCAAAATATAACTTCCATTTCCTTTCCTGCCCTTGGGACTGGAAACATGGAA ATAAAGAAGGAAACAGCAGCAGAGATTTTGTTTGATGAAGTTTTAACATTTGCCAAAGACCATGT AAAACACCAGTTAACTGTAAAATTTGTGATCTTTCCAACAGATTTGGAGATATATAAGGCTTTCAG TTCTGAAATGGCAAAGAGGTCCAAGATGCTGAGTTTGAACAATTACAGTGTCCCCCAGTCAACCA GAGAGGAGAAAAGAGAAAATGGGCTTGAAGCTAGATCTCCTGCCATCAATCTGATGGGATTCAAC GTGGAAGAGATGTAGTGAGGCCCACGCATGGATCCAAAGAATCCTGAGTCTCCAGAACCACCACA TCATTGAGAATAATCATATTCTGTACCTTGGGAGAAAGGAACATGACATTTTGTCTCAGCTTCAGA GCCCGGGCTGACCTCATTGAGGTGGTTATGAACATTGAAGATATGCTTTGTAAAGTACAGGAGGA AATGGCAAGGAAAAAGGAGCGAGGCCTTTGGCGCTCGTTAGGACAGTGGACTATTCAGCAACAAA AAACCCAAGACGAAATGAAAGAAAATATCATATTTCTGAAATGTCCTGTGCCTCCAACTCAAGAG CTTCTAGATCAAAAGAACAGTTTGAAAAATGTGGTTTGCAGGTTCTAAAGGTGGAGAAGATAGA CAATGAGGTCCTTATGGCTGCCTTTCAAAGAAAGAAGAAAATGATGGAAGAAAAACTGCACAGGC AACCTGTGAGCCATAGGCTGTTTCAGCAAGTCCCATACCAGTTCTGCAATGTGGTATGCAGAGTTG GCTTTCAAAGAATGTACTCGACACCTTGCGATCCAAAATACGGAGCTGGCATATACTTCACCAAGA ACCTCAAAAACCTGGCAGAGAAGGCCAAGAAAATCTCTGCTGCAGATAAGCTGATCTATGTGTTT GAGGCTGAAGTACTCACAGGCTTCTTCTGCCAGGGACATCCGTTAAATATTGTTCCCCCACCACTG AGTCCTGGAGCTATAGATGGTCATGACAGTGTGGTTGACAATGTCTCCAGCCCTGAAACCTTTGTT ATTTTTAGTGGCATGCAGGCTATACCTCAGTATTTGTGGACATGCACCCAGGAATATGTACAGTCA CAAGATTACTCATCAGGACCAATGAGACCCTTTGCACAGCATCCTTGGAGGGGATTCGCAAGTGG CAGCCCTGTTGATTAA

Fig. 1

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3' UTR TCTCTACATCATTTTAACAGCTGGTATGGCCTTACCTTGGGTGAACTAACCAAATAATGACCATCG ATACCAAATGAAACACTTTCAGGACCTTCCTTCCTCTTGCAGTTGTTCTTTAATCTCCTTTACTAGA GGAGATAAATATTTTGCATATAATGAAGAAATTTTTCTAGTATATAACGCAGGCCTTTTATTTTCTA AAATGATGATAGTATAAAAATGTTAGGATAACAGAATGATTTTAGATTTTCCAGAGAATATTATAA 

BAL human protein: alternatively spliced (Bold characters)

MDFSMVAGAAAYNEKSGRITSLSLLFQKVFAQIFPQWRKGNTEECLPYKCSETGALGENYSW QIPINHNDFKILKNNERQLCEVLQNKFGCISTLVSPVQEGNSKSLQVFRKMLTPRIELSVWKDDLTT HAVDAVVNAANEDLLHGGGLALALVKAGGFEIQEESKQFVARYGKVSAGEIAVTGAGRLPCKQIIHAV GPRWMEWDKQGCTGKLQRAIVSILNYVIYKNTHIKTVAIPALSSGIFQFPLNLCTKTIVETIRVSLQGKP MMSNLKEIHLVSNEDPTVAAFKAASEFILGKSELGQETTPSFNAMVVNNLTLQIVQGHIEWQTADVIVN SVNPHDITVGPVAKSILQQAGVEMKSEFLATKAKQFQRSQLVLVTKGFNLFCKYIYHVLWHSEFPKPQI LKHAMKECLEKCIEQNITSISFPALGTGNMEIKKETAAEILFDEVLTFAKD HVKHQLTVKFVIFPTDLEIYKAFSSEMAKRSKMLSLNNYSVPQSTREEKRENGLEARSPAINLMGFNVE EMYEAHAWIQRILSLQNHHIIENNHILYLGRKEHDILSQLQKTSSVSITEIISPGRTELEIEGARADLIEVV MNIEDMLCKVQEEMARKKERGLWRSLGQWTIQQQKTQDEMKENIIFLKCPVPPTQELLDQKKQFEKC GLQVLKVEKIDNEVLMAAFQRKKKMMEEKLHRQPVSHRLFQQVPYQFCNVVCRVGFQRMYSTPCDP KYGAGIYFTKNLKNLAEKAKKISAADKLIYVFEAEVLTGFFCQGHPLNIVPPPLSPGAIDGHDSVVDNVS SPETFVIFSGMQAIPQYLWTCTQEYVQSQDYSSGPMRPFAQHPWRGFASGSPVD

Fig. 1A



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BAL mouse cDNA:

VAD 10 O TEL

5'UTR

Coding region (shorter form only)

ATGGATACATGGGCGGCAGCTCCCGCCGAAAGACCAGCCAACAATTCTCTTGAAGAACATTATAG ATGGCAAATTCCCATTAAACACAATGTCTTCGAAATTTTAAAGAGCAATGAGAGTCAGCTATGTGA AGTCCTCCAAAATAAGTTTGGATGCATCTCTACCCTGAGCTGTCCAACTCTAGCAGGGAGCAGCTC  ${\tt CCTTACCAGACACGTTGTTGATGCTGTGGTGAACGCCAATGAAAACCTTTTTGCATGGAAGTGG}$ CCTGGCCGGAAGCTTGGTGAAAACTGGTGGCTTTGAAATCCAAGAAGAGCAAAAGAATCATTG CCAACGTTGGTAAAATCTCAGTTGGTGGAATCGCTATCACCGGTGCGGGGAGACTTCCTTGCCATT TGATTATCCATGCGGTTGGACCTCGGTGGACAGTTACGAACAGCCAGACAGCTATCGAATTACTGA AATTTGCCATTAGGAACATTCTAGATTATGTCACCAAATATGATCTACGCATTAAGACAGTAGCAA TTCCAGCCCTGAGCTCTGGAATTTTCCAGTTCCCTCTGGATTTGTGTACAAGCATAATTTTAGAAAC  ${\tt TTGGGGGGGTCCAGAAACTGACCCTGCTTCCACCATGACTCTTCGCATCGGCCGGGGCCTGACTCT}$ CCAGATTGTCCAAGGCTGTATTGAAATGCAAACAACAGATGTAATTGGTAATTCTGGATACATGCA GGATTTTAAATCAGGACGAGTGGCACAGTCGATTCTTAGACAAGCAGGGGTTGAAATGGAAAAGG AACTTGACAAGGTTAACCTGTCCACAGATTATCAAGAGGTGTGGGTCACAAAAGGATTTAAATTGT CCTGTCAGTATGTCTTCCATGTGGCATGCCAAATCAACAAATACCAGATATTGAAAGATG GGACAGGATTGATGGATTTGAAGAAGAGTACAGCAGCTCAGATAATGTTTGAGGAAGTTTTTTGCA TTTGCTAAAGAGCACAAGGAAAAAACGCTAACTGTAAAGATTGTGATCTTTCCAGTAGATGTGGA GACGTACAAGATTTTTTATGCTGAAATGACAAAAAGGTCCAACGAGCTGAATCTCAGCGGTAATA GTGGTGCTTTAGCCCTGCAGTGGTCCAGTGGGGAGCAAAGAAGAGGCGGCCTTGAAGCTGGATCT CCTGCCATCAATCTCATGGGTGTAAAAGTGGGAGAGATGTGTGAGGCCCAGGAATGGATTGAAAG GTTGCTGGTCTCCCTGGACCACCACATCATTGAGAATAATCATATTCTCTATCTTGGGAAAAAAGA GCACGACGTGCTGTCTGAGCTCCAGACCAGCACAAGAGTCTCCATTTCAGAGACTGTCAGTCCAA GAACGCCACTTTGGAGATTAAAGGTCCCCAGGCTGACCTCATTGACGCAGTTATGAGGATTGAAT GTATGCTGTGACGTTCAGGAAGAAGTGGCAGGAAAAAGGGAGAAAAATCTTTGGAGCTTGTCA GGACAGGGGACCAACCAGCAAGAAAAACTGGATAAAATGGAAGAATCGTACACATTTCAACGAT GATGGAAGAGAGGCCCAAAGGGATCTGGGAGCCAAAGGTTGTTTCAGCAGGTCCCACATCAGT TCTGCAATACGGTGTGCAGAGTCGGCTTCCACAGAATGTATTCGACATCCTATAACCCAGTTTATG GAGCCGGCATATATTTCACCAAGAGCCTCAAAAATCTAGCAGACAAGGTCAAGAAAACCTCAAGC ACAGACAAGCTAATCTATGTGTTTGAGGCAGAAGTACTCACAGGGTCCTTCTGTCAGGGTAATTCC TCAAATATCATCCCTCCACCATTGAGTCCTGGGGCCTTAGATGTCAATGACAGCGTAGTTGACAAT GTTTCCAGCCCTGAAACCATTGTTGTTTTTAATGGCATGCAGGCCATGCCCCTGTACTTGTGGACTT GCACACAGGATAGGACATTCTCACAGCATCCGATGTGGTCACAGGACTACTCATCAGGACCAGGA ATGGTCTCTTCGCTGCAGTCCTGGGAATGGGTCTTAAATGGCAGCTCTGTTTAG

#### 3'UTR:

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TTCTATTTGAtATCTTTCATCTCCTTTCCTATAGGTGACAGCAAGAATACTTTATATAGAACAAGGA TATTTTTTCAAGCCTGTTATTTTCTAAAATGATAGCACAAACTAGGACAACAGGATGATTTCAGG 

#### BAL mouse protein (shorter form):

MDTWAAAPAERPANNSLEEHYRWQIPIKHNVFEILKSNESQLCEVLQNKFGCISTLSCPTLAGSSS PAORVFRRTLIPGIELSVWKDDLTRHVVDAVVNAANENLLHGSGLAGSLVKTGGFEIQEESKRIIA NVGKISVGGIAITGAGRLPCHLIIHAVGPRWTVTNSQTAIELLKFAIRNILDYVTKYDLRIKTVAIPA LSSGIFQFPLDLCTSIILETIRLYFQDKQMFGNLREIHLVSNEDPTVASFKSASESILGRDLSSWGGP ETDPASTMTLRIGRGLTLQIVQGCIEMQTTDVIGNSGYMQDFKSGRVAQSILRQAGVEMEKELDK VNLSTDYQEVWVTKGFKLSCQYVFHVAWHSQINKYQILKDAMKSCLEKCLKPDINSISFPALGT GLMDLKKSTAAQIMFEEVFAFAKEHKEKTLTVKIVIFPVDVETYKIFYAEMTKRSNELNLSGNSG ALALOWSSGEORRGGLEAGSPAINLMGVKVGEMCEAQEWIERLLVSLDHHIIENNHILYLGKKE HDVLSELQTSTRVSISETVSPRTATLEIKGPQADLIDAVMRIECMLCDVQEEVAGKREKNLWSLS GOGTNOOEKLDKMEESYTFQRYPASLTQELQDRKKQFEKCGLWVVQVEQIDNKVLLAAFQE K KKMMEERTPKGSGSQRLFQQVPHQFCNTVCRVGFHRMYSTSYNPVYGAGIYFTKSLKNLADKV KKTSSTDKLIYVFEAEVLTGSFCQGNSSNIIPPPLSPGALDVNDSVVDNVSSPETIVVFNGMQAMP LYLWTCTODRTFSQHPMWSQDYSSGPGMVSSLQSWEWVLNGSSV

Fig. 2A

MAR 0 3 2004

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610015 ENGLEARSPAINLMGFNVEEMYEAHAWIQRILSLQNHHIIENNHILYLGRKEHDILSQLQ ..:::: :::::::: .: ::: ::: :::::::: RGGLEAGSPAINLMGVKVGEMCEAQEWIERLLVSLDHHIIENNHILYLGKKEHDVLSELQ 610015 KTSSVSITEIISPGRTELEIEGARADLIEVVMNIEDMLCKVQEEMARKKERGLWRSLGQW TSTRVSISETVSPRTATLEIKGPQADLIDAVMRIECMLCDVQEEVAGKREKNLWSLSGOG 610015 TIQQQKTQDEMKENIIFLKCPVPPTQELLDQKKQFEKCGLQVLKVEKIDNEVLMAAFQRK TNQQEKL-DKMEESYTFQRYPASLTQELQDRKKQFEKCGLWVVQVEQIDNKVLLAAFQEK 610015 KKMMEEKLHRQPVSHRLFQQVPYQFCNVVCRVGFQRMYSTPCDPKYGAGIYFTKNLKNLA KKMMEERTPKGSGSQRLFQQVPHQFCNTVCRVGFHRMYSTSYNPVYGAGIYFTKSLKNLA 610015 EKAKKISAADKLIYVFEAEVLTGFFCQGHPLNIVPPPLSPGAIDGHDSVVDNVSSPETFV DKVKKTSSTDKLIYVFEAEVLTGSFCQGNSSNIIPPPLSPGALDVNDSVVDNVSSPETIV 610015 IFSGMQAIPQYLWTCTQE--YVQ----SQDYSSGPMRPFAQHPWRGFASGSPVD .:.:::::: ::::::: . : ::::::: . . : . VFNGMQAMPLYLWTCTQDRTFSQHPMWSQDYSSGPGMVSSLQSWEWVLNGSSV-

Fig. 3A



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3244n 3024n

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(A) 7486572155.52.67.361 >\_ BAL Human (B) 7486572155.52.67.362 >\_ BAL Mouse using matrix file: DNA, gap penalties: -16/-4

Comparison of:

71.7	7% identity	in 2916	nt overlag	; score: 54	144	
	370	380 ''GCTCAGAG	390 ACTGGTGCTCT	400 TTGGAGAAAAC	410 TATAGTTGGCA	420 AATTCCCATT
_	::: : :	: :::	: ::::	:::::::::::::::::::::::::::::::::::::::	::::: :::::	:::::::::
-	CCCGCCGAAA 200	GACCAGCCI 210		TTGAAGAACAT 230	TATAGATGGCA 240	AATTCCCATT 250
	430	440	450	460	470	480
_	AACCACAATO	SACTTCAAA	ATTTTAAAAA	ATAATGAGCGT		
	:: :::::::	: :::: ::	:::::::: :	::::::::::::::::::::::::::::::::::::::	::::: ::::: ->	
-	260	27			300	310
	490	500	510			540
				CTCTCCAGTT		
	እስጥል እርጥጥጥ(	: : :: ::: ኋር ኔ ጥር	: : : : : : : : : ኮሮሞልሮሮሮሞርል!	GCTGTCCAACT	: ::::: CTAGCAGGGAG	CAGCTCTCCT
-	320	33			360	370
	550	560	570	580	590	600
			AAAATGCTGA	CTCCTAGGATA		
		:::::::		::::::: CCCTGGGATA		
_	GCTCAGAGAG 380	FICTICAGA 39			420	430
	610	620	630	640	650	660
_	GACCTCACC	ACACATGCT	GTTGATGCTG	TGGTGAATGCA		
	:::::	: ::: : :	:::::::::	::::::: :::		COMMUNICAN
-	GACCTTACCA 440	AGACACGTT 45		TGGTGAACGCA 0 470		490
	440	43				
	670	680	690			720
_	GGGGGAGGC	CTGGCCCTG	GCCCTGGTAA	AAGCTGGTGGA :::::::::	TTTGAAATCC	AAGAAGAGAGC
	GGAAGTGGC	:::::: CTGGCCGGA	ACCTTGGTGA	AAACTGGTGGC	TTTGAAATCC	AAGAAGAGAGC
_	500	51	0 52	0 530		55 <u>.</u> 0
	730	740		7.60	770 <sup>-</sup>	
_	AAACAGTTT			TGTCAGCTGGT		
	::: :	::::: አጥጥር/ር/ር አ አ ር		: :::: :::: TCTCAGTTGGT		:::: :: PCACCGGTGCG
-	560	57				610

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	1250	1260	1270	1280	1290	1300 AGGAGTTGAAATG
_						
			BACGAGTGGC	CAGTCGATTC	CTTAGACAAGC	AGGGGTTGAAATG
	11	.00 11	L10 11	120 113	30 11	140 1150
	1310	1320	1330	1340	1350	1360
	AAATCGG		-			GTTGGTACTGGTC
		:: ::::	:: ::: :		: : : : : : : : : : : : : : : : : : : :	AGAGGTGTGGGTC
-	GAAAAGG 11	AACTTG/	1170	1180	1190	1200
		.00	1170	1100	1170	
					1410	
_		-				GCATTCAGAATTT
	::::::	:::::::::::::::::::::::::::::::::::::	::: :::: : ncmccmcmcaca	::::::::::::::::::::::::::::::::::::::	::::: "እጥርጥርርር እጥር	GCATTCCCAAATC
_	1210	1220	1230	1240	1250	1260
	1210	1220	2230			
					1470	
_						AATGCATTGAGCAA
	:::			:::::::	::: : :::::	AATGCCTTAAACCA
-					1310	
	1270	1200	1270	100	4040	1920
	1490				1530	
_	AATATAA	CTTCCATTT	CCTTTCCTGC	CCTTGGGACT	GGAAACATGG!	<b>LAATAAAGAAGGAA</b>
_	AATATAA	CTTCCATTT	CCTTTCCTGC	CCTTGGGACT(	GGAAACATGG!	AAATAAAGAAGGAA
_	AATATAA ::::: GATATAA	CTTCCATTT( ::::::: ATTCCATTT(	CCTTTCCTGC( ::::::::: CCTTTCCTGC'	CTTGGGACT( :::::::: CTCGGGACA(	GGAAACATGG! ::: :::::: :GATTGATGG!	AAATAAAGAAGGAA : :::::: ATTTGAAGAAGAGT
<b>-</b>	AATATAA ::::: GATATAA	CTTCCATTT( ::::::: ATTCCATTT(	CCTTTCCTGC( ::::::::: CCTTTCCTGC'	CTTGGGACT( :::::::: CTCGGGACA(	GGAAACATGG!	AAATAAAGAAGGAA : :::::: ATTTGAAGAAGAGT
<del>-</del>	AATATAA :::::: GATATAA 1330	ACTTCCATTT( ::::::: ATTCCATTT( 1340	CCTTTCCTGC( ::::::::: CCTTTCCTGC( 1350	CCTTGGGACT( ::::::: PCTCGGGACA( 1360	GGAAACATGGA ::: ::::: GGATTGATGGA 1370	AAATAAAGAAGGAA : :::::: ATTTGAAGAAGAGT 1380
_ _ _	AATATAA :::::: GATATAA 1330 1550 ACAGCAG	ACTTCCATTT( :::::::: ATTCCATTT( 1340  1560  CCAGAGATTT	CCTTTCCTGC( ::::::::: CCTTTCCTGC' 1350  1570  CGTTTGATGA	CCTTGGGACT( :::::: PCTCGGGACA( 1360  1580 AGTTTTAACA	GGAAACATGGA ::: ::::::::::::::::::::::::::::::::	AAATAAAGAAGGAA : :::::: ATTTGAAGAAGAGT 1380 1600 ACCATGTAAAACAC
 	AATATAA :::::: GATATAA 1330 1550 ACAGCAG	ACTTCCATTT( :::::::: ATTCCATTT( 1340  1560 GCAGAGATTT	CCTTTCCTGC( ::::::::: CCTTTCCTGC' 1350  1570  IGTTTGATGAL ::::::::::::::::::::::::::::::::::::	CCTTGGGACT( :::::: PCTCGGGACA( 1360  1580 AGTTTTAACA	GGAAACATGGA GGATTGATGGA 1370 1590 FTTGCCAAAGA	AAATAAAGAAGGAA : :::::: ATTTGAAGAAGAGT 1380  1600 ACCATGTAAAACAC
- -	AATATAA  :::::: GATATAA  1330  1550 ACAGCAG ::::::: ACAGCAG	ACTTCCATTT( :::::::: ATTCCATTT( 1340  1560 GCAGAGATTT( ::::::::::::::::::::::::::::::::::	CCTTTCCTGCC  1350  1570  1GTTTGATGAL  IGTTTGAGGA	CCTTGGGACTO ::::::: PCTCGGGACAO 1360  1580 AGTTTTAACAO AGTTTTAACAO	GGAAACATGGA GGATTGATGGA 1370 1590 FTTGCCAAAGA FTTGCTAAAGA	AAATAAAGAAGGAA : :::::: ATTTGAAGAAGAGT 1380  1600 ACCATGTAAAACAC : : : : : AGCACAAGGAAAAA
	AATATAA :::::: GATATAA 1330 1550 ACAGCAG :::::: ACAGCAG 1390	ACTTCCATTT( ::::::: ATTCCATTT( 1340  1560 GCAGAGATTTT ::::: GCTCAGATAA	CCTTTCCTGCC ::::::::::::::::::::::::::::	CCTTGGGACT( ::::::: PCTCGGGACA( 1360  1580 AGTTTTAACA( ::::::::::::::::::::::::::::::::::	GGAAACATGGA :::::::::::::::::::::::::::::::::::	AAATAAAGAAGGAA : :::::: ATTTGAAGAAGAGT 1380  1600 ACCATGTAAAACAC : :: ::: AGCACAAGGAAAAA 1440
	AATATAA :::::: GATATAA 1330 1550 ACAGCAG :::::: ACAGCAG 1390	ACTTCCATTT( :::::::: ATTCCATTT( 1340  1560 GCAGAGATTT' ::::: GCTCAGATAA' 1400  1620	CCTTTCCTGCC 1350  1570  1570  IGTTTGATGAT  IGTTTGAGGAT  1410  1630	CCTTGGGACTO ::::::: PCTCGGGACAO 1360  1580 AGTTTTAACAO :::::::::: AGTTTTTGCAO 1420  1640	GGAAACATGGA :::::::::::::::::::::::::::::::::::	AAATAAAGAAGGAA : :::::: ATTTGAAGAAGAGT 1380  1600 ACCATGTAAAACAC : :: :: AGCACAAGGAAAAA 1440  1660
	AATATAA  :::::: GATATAA  1330  1550 ACAGCAG :::::: ACAGCAG 1390  1610 CAGTTAA	CTTCCATTT( :::::::: ATTCCATTT( 1340  1560 GCAGAGATTT( :::::: GCTCAGATAA( 1400  1620 ACTGTAAAATT	CCTTTCCTGCC 1350  1570  IGTTTGATGATGACCCCCCCCCCCCCCCCCCCCCCCCCCC	CCTTGGGACTC ::::::: CCTCGGGACAC 1360  1580 AGTTTTAACAC ::::::::: AGTTTTTGCAC 1420  1640 CCCAACAGAT	GGAAACATGGA  :::::::::::::::::::::::::::::::::	AAATAAAGAAGGAA : :::::: ATTTGAAGAAGAGT 1380  1600 ACCATGTAAAACAC : :: :: AGCACAAGGAAAAA 1440  1660 ATAAGGCTTTCAGT
	AATATAA  :::::: GATATAA  1330  1550 ACAGCAG ::::::: ACAGCAG 1390  1610 CAGTTAA	CTTCCATTT( :::::::: ATTCCATTT( 1340  1560 GCAGAGATTT( :::::: GCTCAGATAA( 1400  1620 ACTGTAAAAT(	CCTTTCCTGCC 1350  1570  IGTTTGATGAT  IGTTTGAGGA  1410  1630  ITGTGATCTT	CCTTGGGACTO ::::::: CTCGGGACAO 1360  1580 AGTTTTAACA' ::::::::: AGTTTTTGCA' 1420  1640 CCCAACAGAT'	GGAAACATGGA  SGATTGATGGA  1370  1590  ITTGCCAAAGA  STTGCTAAAGA  1430  1650  ITGGAGATATA	AAATAAAGAAGGAA : :::::: ATTTGAAGAAGAGT 1380  1600 ACCATGTAAAACAC ::::::: AGCACAAGGAAAAA 1440  1660 ATAAGGCTTTCAGT
	AATATAA  :::::: GATATAA  1330  1550  ACAGCAG  :::::: ACAGCAG  1390  1610  CAGTTAA  :::: ACGCTAA	CTTCCATTT( ::::::: LATTCCATTT( 1340  1560 CCAGAGATTT( ::::: CCTCAGATAA( 1400  1620 LCTGTAAAAT( LCTGTAAAAGA(   LCTGTAAAAGA(   LCTGTAAAAGA(   LCTGTAAAAGA(   LCTGTAAAAGA(   LCTGTAAAAGA(    LCTGTAAAAGA(    LCTGTAAAAGA(    LCTGTAAAAGA(     LCTGTAAAAGA(     LCTGTAAAAGA(      LCTGTAAAAGA(        LCTGTAAAAGA(	CCTTTCCTGCC 1350  1570  1570  IGTTTGATGAT  1410  1630  ITGTGATCTT  ITGTGATCTT	CCTTGGGACTO ::::::: CTCGGGACAO 1360  1580 AGTTTTAACA' ::::::::: AGTTTTTGCA' 1420  1640 CCCAACAGAT'	GGAAACATGGA  SGATTGATGGA  1370  1590  ITTGCCAAAGA  STTGCTAAAGA  1430  1650  ITGGAGATATA	AAATAAAGAAGGAA : :::::: ATTTGAAGAAGAGT 1380  1600 ACCATGTAAAACAC : :: :: AGCACAAGGAAAAA 1440  1660 ATAAGGCTTTCAGT
	AATATAA  :::::: GATATAA  1330  1550 ACAGCAG ::::::: ACAGCAG 1390  1610 CAGTTAA	ACTTCCATTTO  1340  1560  CCAGAGATTTO  CCAGAGATAN  1400  1620  ACTGTAAAATT  ACTGTAAAAATT  ACTGTAAAAGAT  1460	CCTTTCCTGCC 1350  1570  1570  IGTTTGATGAL 1410  1630  ITGTGATCTT  ITGTGATCTT  1470	CCTTGGGACTO ::::::: PCTCGGGACAO 1360  1580 AGTTTTAACAO ::::::::: AGTTTTTGCAO 1420  1640 PCCAACAGATO ::::::::::: PCCAGTAGATO 1480	GGAAACATGGA  SISTEMATICAT GENERAL GENE	AAATAAAGAAGGAA : :::::: ATTTGAAGAAGAGT 1380  1600 ACCATGTAAAACAC ::::::: AGCACAAGGAAAAA 1440  1660 ATAAGGCTTTCAGT :::::::::: ACCAAGATTTTTAT
	AATATAA	ACTTCCATTTO  SCAGAGATTTO  CAGAGAGATTTO  CAGAGAGATAN  1400  1620  ACTGTAAAAT  ACTGTAAAAT  1460  1680	CCTTTCCTGCC 1350  1570  IGTTTGATGAT 1410  1630  ITGTGATCTT  1470  1690	CCTTGGGACT( ::::::: PCTCGGGACA( 1360  1580 AGTTTTAACA' :::::::::: AGTTTTTGCA' 1420  1640 PCCAACAGAT' ::::::::::::::::::::::::::::::::::::	GGAAACATGGA  :::::::::::::::::::::::::::::::::	AAATAAAGAAGGAA : :::::: ATTTGAAGAAGAGT 1380  1600 ACCATGTAAAACAC : :: ::: AGCACAAGGAAAAA 1440  1660 ATAAGGCTTTCAGT : ::: :: :: ACCAGATTTTTAT 1500
	AATATAA  :::::: GATATAA  1330  1550 ACAGCAG  :::::: ACAGCAG  1390  1610 CAGTTAA  :::: ACGCTAA  1450  1670 TCTGAAA	CTTCCATTTO  :::::::: ATTCCATTTO  1340  1560 CCAGAGATTTO  :::::: CCTCAGATAA'  1400  1620 ACTGTAAAATO  ACTGTAAAGA'  1460  1680 ATGGCAAAGA	CCTTTCCTGCC  1350  1570  IGTTTGATGAT  1410  1630  ITGTGATCTT  1470  1690  GGTCCAAGAT	CCTTGGGACTO ::::::: CCTCGGGACAO 1360  1580 AGTTTTAACA' ::::::::: AGTTTTTGCA' 1420  1640 ICCAACAGAT' ::::::::: ICCAGTAGATO 1480  1700 GCTGAGTTTG	GGAAACATGGA  SGATTGATGGA  1370  1590  FTTGCCAAAGA  STTGCTAAAGA  1430  1650  FTGGAGATATA  STGGAGACGTA  1490  1710  AACAATTACAA	AAATAAAGAAGGAA : :::::: ATTTGAAGAAGAGT 1380  1600 ACCATGTAAAACAC ::: :: AGCACAAGGAAAAA 1440  1660 ATAAGGCTTTCAGT :::: :: ACAAGATTTTTAT 1500  GTGTC
	AATATAA  :::::: GATATAA  1330  1550 ACAGCAG ::::::: ACAGCAG 1390  1610 CAGTTAA 1450  1670 TCTGAAA :::::	CTTCCATTTO  SCHOOL 1340  1560 CCAGAGATTTO  CCAGAGATTTO  1400  1620 ACTGTAAAATT  ACTGTAAAAATT  1460  1680 ATGGCAAAGA	CCTTTCCTGCC  1350  1570  IGTTTGATGAT  1410  1630  ITGTGATCTT  1470  1690  GGTCCAAGAT	CCTTGGGACTO ::::::: CCTCGGGACAO 1360  1580 AGTTTTAACA' ::::::::: AGTTTTTGCA' 1420  1640 ICCAACAGAT' ::::::::: ICCAGTAGATO 1480  1700 GCTGAGTTTGCA'	GGAAACATGGA  SGATTGATGGA  1370  1590  ITTGCCAAAGA  STTGCTAAAGA  1430  1650  ITGGAGATATA  STGGAGACGTA  1490  1710  AACAATTACACA	AAATAAAGAAGGAA : :::::: ATTTGAAGAAGAGT 1380  1600 ACCATGTAAAACAC ::: ::: AGCACAAGGAAAAA 1440  1660 ATAAAGGCTTTCAGT ::::::: ACAAGATTTTTAT 1500  GTGTC
	AATATAA  :::::: GATATAA  1330  1550 ACAGCAG ::::::: ACAGCAG 1390  1610 CAGTTAA 1450  1670 TCTGAAA :::::	CTTCCATTTO  SCHOOL 1340  1560 CCAGAGATTTO  CCAGAGATTTO  1400  1620 ACTGTAAAATT  ACTGTAAAAATT  1460  1680 ATGGCAAAGA	CCTTTCCTGCC  1350  1570  IGTTTGATGAT  1410  1630  ITGTGATCTT  1470  1690  GGTCCAAGAT	CCTTGGGACTO ::::::: CCTCGGGACAO 1360  1580 AGTTTTAACA' ::::::::: AGTTTTTGCA' 1420  1640 ICCAACAGAT' ::::::::: ICCAGTAGATO 1480  1700 GCTGAGTTTGCA'	GGAAACATGGA  SGATTGATGGA  1370  1590  ITTGCCAAAGA  STTGCTAAAGA  1430  1650  ITGGAGATATA  STGGAGACGTA  1490  1710  AACAATTACACA	AAATAAAGAAGGAA : :::::: ATTTGAAGAAGAGT 1380  1600 ACCATGTAAAACAC ::: :: AGCACAAGGAAAAA 1440  1660 ATAAGGCTTTCAGT :::: :: ACAAGATTTTTAT 1500  GTGTC



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Inventor: Margaret Shipp et al.
Title: LYMPHOMA ASSOCIATED MOLECULES AND USES
THEREFOR replacement pages

# 10/23

Docket No.: DFN-031US

	1720	1730	1740			1770
_	: ::::	:::::	:::: ::	::: : ::	: ::::::::	GATCTCCTGCCATC
-	CTGCAGT 1570	GGTCCAGTG 1580	GGGAGCAA 159			GATCTCCTGCCATC 1620
			1800			1830 TGGATCCAAAGAAT
	:::::	:::: : :	: :::: :	:::::::::::::::::::::::::::::::::::::::	:::::::::::::::::::::::::::::::::::::::	::::: :::: :
-	AATCTCA 1630	TGGGTGTAA 1640	AAGTGGGA 165			TGGATTGAAAGGTT 1680
				1870		1890
_	CCTGAGT					TACCTTGGGAGAAA
			CACCACAT	CATTGAGAAT	AATCATATTCT	TATCTTGGGAAAAA
	1690	1700	17	10 172	20 1730	1740
	1900			1930		
_	GGAACAI		TCTCAGCT		CAAGTGTCTC(	CATCACAGAAATTAT
			TCTGAGCT	CCAGACCAGC		ATTTCAGAGACTGT
	1750	1760	17	70 178	80 1790	1800
	1960	1970	1980			
_	CAGCCCA	AGGAAGGACA	GAGTTAGA	GATTGAAGGA		CTCATTGAGGTGGT
<del>-</del>	CAGCCC	AGGAAGGACA	GAGTTAGA ::::: ACTTTGGA	GATTGAAGGA( :::: :::: GATTAAAGGT(	GCCCGGGCTGA ::::::::: CCCAGGCTGA	CTCATTGAGGTGGT ::::::::::::::::::::::::::::
<del>-</del>	CAGCCCA ::: ::: CAGTCCA 1810	AGGAAGGACA : ::: : : AAGAACGGCC 1820	GAGTTAGA :: :: ACTTTGGA 18	GATTGAAGGA( :::: :::: GATTAAAGGT( 30 18	GCCCGGGCTGA( ::::::::: CCCCAGGCTGA( 40 185(	CCTCATTGAGGTGGT CCTCATTGACGCAGT 1860
_	CAGCCCA :::::::: CAGTCCA 1810	AGGAAGGACA : ::: :: AAGAACGGCC 1820 2030	GAGTTAGA :::: ACTTTGGA 18 2040 ATGCTTTG	GATTGAAGGA( ::::::::::::::::::::::::::::::::	GCCCGGGCTGAC CCCCAGGCTGAC 40 1850 2060 GAGGAAATGGC	CCTCATTGAGGTGGT ::::::::::::::::::::::::::::
	CAGCCCA :::::::: CAGTCCA 1810  2020 TATGAAC :::::	AGGAAGGACA  AAGAACGGCC 1820  2030 CATTGAAGAT	GAGTTAGA ::::: ACTTTGGA 18 2040 ATGCTTTG	GATTGAAGGAGAGATGATTAAAGGTGATAAAGTACAGGATGAAGTACAGGATGAAGTACAGGATGAAGGAAG	GCCCGGGCTGAGCCCCAGGCTGAGAGAAATGGCAGGAAATGGCAGCAGGCAAATGGCAGCAAATGGCAGCAGCAGGAAATGGCAGCAGCAGGCAG	CCTCATTGAGGTGGT CCTCATTGACGCAGT D 1860  2070 AAGGAAAAAGGAGCG
	CAGCCCA :::::::: CAGTCCA 1810  2020 TATGAAC :::::	AGGAAGGACA  AAGAACGGCC 1820  2030 CATTGAAGAT	GAGTTAGA :::: ACTTTGGA 18 2040 ATGCTTTG ::::::	GATTGAAGGAGAGATGATTAAAGGTGATAAAGTACAGGATGAAGTACAGGATGAAGTACAGGATGAAGGAAG	GCCCGGGCTGAGCCCCAGGCTGAGA0 1850  2060 GAGGAAATGGCAGGAAGAGGGAAATGGCAGAAAGAGTGGCAAAGAGTGGCAAAGAGTGGCAAAGAAGTGGCAGAAAGAGTGGCAGAAAGAA	CCTCATTGAGGTGGT CCTCATTGACGCAGT 1860 2070 AAGGAAAAAGGAGCG CCCCCCCCCCCCCCCCCCCCCC
	CAGCCCA ::::::: CAGTCCA 1810  2020 TATGAAC ::::: TATGAGC 1870  2080	AGGAAGGACA : ::: :: : AAGAACGGCC 1820 2030 CATTGAAGAT ::::: : FATTGAATGT 1880	GAGTTAGA ::::: ACTTTGGA 18 2040 ATGCTTTG ::::::: ATGCTGTG 18	GATTGAAGGAG  :::::::::::::::::::::::::::	GCCCGGGCTGAGCCCCAGGCTGAGAGAGAATGGCAGAAATGGCAGAAATGGCAGAAATGGCAGAAAGAGAGAG	CCTCATTGAGGTGGT CCTCATTGACGCAGT 1860 2070 AAGGAAAAAAGGAGCG CCCCCCCCCCCCCCCCCCCCC
	CAGCCCA ::::::: CAGTCCA 1810  2020 TATGAAC ::::: TATGAGC 1870  2080 AGGCCTT	AGGAAGGACA : ::::::: AAGAACGGCC 1820  2030 CATTGAAGAT ::::::::::::::::::::::::::::::	GAGTTAGA :::: ACTTTGGA 18 2040 ATGCTTTG :::::: ATGCTGTG 18 2100 TTAGGACA	GATTGAAGGAG  CONTRACT  CON	GCCCGGGCTGAGCCCCCAGGCTGAGAGAATGGCAGAAATGGCAGAAATGGCAGAAAAAAAA	CCTCATTGAGGTGGT  CCTCATTGACGCAGT  1860  2070  AAGGAAAAAAGGAGCG  ::::::::: AGGAAAAAAGGAGAAA  1920  2130  AACCCAAGACGAAAT
	CAGCCCA :::::::: CAGTCCA 1810  2020 TATGAAC ::::: TATGAGC 1870  2080 AGGCCTT	AGGAAGGACA : ::::::: AAGAACGGCC 1820 2030 CATTGAAGAT ::::::::::::::::::::::::::::::	GAGTTAGA ::::: ACTTTGGA 18 2040 ATGCTTTG ::::::: ATGCTGTG 18 2100 TTAGGACA ::::::: TCAGGACA	GATTGAAGGAG  CONTRACT  CON	GCCCGGGCTGAG  CCCCAGGCTGAG  1850  2060  GAGGAAATGGCAGAGAAAAG  2120  CAGCAACAAAAAG  CAGCAAGAAAAAG  CAGCAAGAAAAAG  CAGCAAGAAAAAAG	CCTCATTGAGGTGGT  CCTCATTGACGCAGT  1860  2070 AAGGAAAAAAGGAGCG  ::::::::: AGGAAAAAAGGAGAAA  1920  2130 AACCCAAGACGAAAT  :::::::::
	CAGCCCA ::::::: CAGTCCA 1810  2020 TATGAAC ::::: TATGAGC 1870  2080 AGGCCTT ::::: AAATCTT 1930  2140	AGGAAGGACA  : :: : : : AAGAACGGCC  1820  2030 CATTGAAGAT  ::::: : SATTGAATGT  1880  2090 FTGGCGCTCG :::: : : : FTGGAGCTTG  1940	GAGTTAGA ::::: ACTTTGGA 18 2040 ATGCTTTG ::::::: ATGCTGTG 18 2100 TTAGGACA ::::::: TCAGGACA 19	GATTGAAGGAG  ::::::::::  GATTAAAGGTG  30 18  2050  TAAAGTACAGG  :::::::::::::::::::::::::::::::::	GCCCGGGCTGAG  ::::::::::  CCCCAGGCTGAG  40 1850  2060  GAGGAAATGGCAGCAAGAAATGGCAGCAAGAAAAAAAAAA	CCTCATTGAGGTGGT  CCTCATTGACGCAGT  1860  2070 AGGAAAAAGGAGCG  CCTCATTGACGCAGT  1860  2070 AGGAAAAAGGAGCG  CCTCATTGACGCAGC  AGGAAAAAGGAGCG  ACCCAAGACGAAAT  CCTCGGATAAAAT  CCTGGATAAAAT  CCTGGATAAAAT  CCTGGATAAAAT  CCTGGATAAAAT
	CAGCCCA  ::::::: CAGTCCA 1810  2020 TATGAAC ::::: TATGAGC 1870  2080 AGGCCTT ::::: AAATCTT 1930  2140 GAAAGAA ::::::	AGGAAGGACA  : ::::::: AAGAACGGCC 1820  2030 CATTGAAGAT ::::::::: GATTGAATGT 1880  2090 CTGGCGCTCG ::::::::::::::::::::::::::::	GAGTTAGA :::: ACTTTGGA 18 2040 ATGCTTTG :::::: ATGCTGTG 18 2100 TTAGGACA :::::: TCAGGACA 19 2160 TTTCTGAA ::::	GATTGAAGGAG  SISSING  GATTAAAGGTG  30 184  2050  TAAAGTACAGG  SISSING  TGACGTTCAGG  90 50 196  2110  GTGGACTATTG  SISSING  2170  ATGTCCTGTG  SISSING  ATGTCCTGTG  SISSING  ATGTCCTGTG	GCCCGGGCTGAG  CCCCAGGCTGAG  1850  2060  GAGGAAATGGCAG  CICCAGGAAAAAAAAAAAAAAAAAAAAAAAAAA	CCTCATTGAGGTGGT  CCTCATTGACGCAGT  1860  2070  AGGAAAAAGGAGCG  CCTCATTGACGCAGT  1860  2070  AGGAAAAAGGAGAAA  1920  2130  ACCCAAGACGAAAT  CCCAAGACGAAAT  1980

App No.: 09/830762 Docket No.: DFN-03 Inventor: Margaret Shipp et al.
Title: LYMPHOMA ASSOCIATED MOLECULES AND USES THEREFOR replacement pages

# 11/23

Docket No.: DFN-031US

	2200	2210	2220	2230	2240	2250	
_		AAACAGTTT	GAAAAATGTG	GTTTGCAGGT	TCTAAAGGTG	GAGAAGATAG	ACAATGA
			*****			*** *****	
_	AAAGA		GAAAAGTGTG				
		2050	2060	2070	2080	2090	2100
	2260	2270	2280	2290	2300	2310	
			GCCTTTCAAA				ACAGGCA
_	::::		::::: :::		:::::::::::		: :
	GGTGC	CTGCTGGCT	GCCTTCCAAG.	AGAAGAAGAA	AATGATGGAA	GAGAGGACGC	CAAAGGG
		2110	2120	2130	2140	2150	2160
	0000	2220	2240	0250	0260	0250	
	2320	2330	2340 AGGCTGTTTC.	2350	2360	2370	m3 maa3 a
			AGGCTGTTTC.				TATGUAG
			AGGTTGTTTC.				
_		2170	2180	2190	2200	2210	2220
	2380	2390	2400	2410	2420	2430	
_			AGAATGTACT				
			:::::::: AGAATGTATT	::::: : : CCACATCCTA	: :::		::::::: ccamama
-	AGICG	2230	2240	2250	2260	2270	2280
			2240	2230	2200	2270	2200
	2440	2450	2460	2470	2480	2490	
_	CTTCA		CTCAAAAACC'				CAGATAA
							::::
_	TTTCA	CCAAGAGC 2290	CTCAAAAATC' 2300	PAGCAGACAA 2310	GGTCAAGAAA 2320	ACCTCAAGCA 2330	CAGACAA 2340
		2290	2300	2310	2320	2330	2340
	2500	2510	2520	2530	2540	2550	
_	GCTGA	TCTATGTG	TTTGAGGCTG.	AAGTACTCAC.	AGGCTTCTTC	TGCCAGGGAC	ATCCGTT
		:::::::					:: : :
	GCTAA		TTTGAGGCAG				
		2350	2360	2370	2380	2390	2400
	2560	2570	2580	<sup>ື</sup> ່ 2590	2600	2610	
_			CCACCACTGA				TGGTTGA
_	:::::	: :::			:::::	:::::::::::::::::::::::::::::::::::::::	
	AAATA		CCACCATTGA				
		2410	2420	2430	2440	2450	2460
	2620	2630	2640	2650	2660	2670	
			2640 CCTGAAACCT'				ርጥሮኔርጥኔ
_			ccignaacci. ::::::::::				
					TAATGGCATG		
_	Canto	TITICCWGC	CCIGAAACCA.	TIGITGIIII.	TWITGGCWIG	CAGGCCAIGC	CCCIGIA

App No.: 09/830762 Docket No.: DFN-03<sup>-</sup>
Inventor: Margaret Shipp et al.
Title: LYMPHOMA ASSOCIATED MOLECULES AND USES
THEREFOR replacement pages

Docket No.: DFN-031US



### 12/23

	2680		2700			2710	
_	TTTGTG	GACATGCA	CCCAGGA	-ATATGTAC	A	GTCACA	AGATTA
_				: :: ::		:::::	
	CTTGTG	GACTTGCA	CACAGGATAG	GACATTCTC	ACAGCATCCGA	TGTGGTCACA	GGACTA
_		530	2540	2550	2560	2570	2580
	_				2300	23.0	2300
	2	730	2740	2750	2760	2770	2780
	_				CCTTGGAGGG		
_							
				: : : :::	GTCCTGGGAAT	: :: ::	
	2	590	2600	2610	2620	2630	2640
				2810		2830	
_	CCCTGT				CTGGTATGGCC	TTACCTTGGG	TGAACT
	: ::::			::::::			:::::
_	CTCTGT	TTAGT	GTCTACATCA	GTTTAACAA	GCAGAAGGGG-	TTGAG	AGAACT
		2650	2660	2670	2680		2690
					·		
	2	850	2860	2870	2880	2890	2900
	AACCAA	ATAATGAC	CATCGATGGC	TCAAAGAGT	GCTTGAATAT	ATCCCATGGG	TTATCT
	GACAAA	ATGAT		AAATA		ACAGG	ጥጥልሮሮጥ
_	27	00				2710	
						2710	
	2	910	2920	2930	2940	2950	2960
	_				CACATACTAGC		
_					CATACIAGE		
					CACACACTAGC		
_	2720			2750			CTTT
	2120	2/30	2/40	4/50	2760	2770	
	2	970	2000	2000	3000	2010	2000
	_				3000		3020
_					TACCAAATGAA		
	::::				::: :::		:: :
_					GCCAGCTAAA		
	2780	2	790 2	800 2	2810	2820	2830
				Č.			
					3060		
_	CCTTCC	TCTTGCAG'	TTGTTCTTTA	ATCTCCTTTA	CTAGAGGAGA	TAAAT	ATTTTG
	: :: :				::: ::: ::		
_	CTTTTC	TATTTGAC			CTATAGGTGA		
_				2860	2870	2880	

Fig. 4E

Inventor: Margaret Shipp et al.

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replacement pages

Docket No.: DFN-031US



CATATAATGAAGAAATTTTTCTAGTATATAACGCAGGCCTTTTATTTTCTAAAATGATGA \*\*\* \*\* \* \*\* \*\*\*\*\* \* TATAGAACAAGGATATTTTTT--CAAGCCTGTTATTTTCTAAAATGA---TAGTATAAAAATGTTAGGATAACAGAATGATTTTAGATTTTCCAGAGAATATTATAAAGT ::: : ::: TAGCACAAAC----TAGGACAACAGGATGATTTCAGGTTTTCTATATAAT-TTATAAAGT **GCTTTAGGTATGAAAATAAATCATCTTTGTCTGATT GCTTTGGATATCCAAATAAATCACCTTTGTCTGAGT** 

Fig. 4F